

Elazar Rabbani et al.; Serial No. 09/896,897; Filed: June 30, 2001

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Amendments to the Claims:

The listing of the claims below will replace all prior versions and listing of claims in this application.

Listing of Claims:

1. (Previously Presented) A composition of matter that comprises a library of nucleic acid analytes and an array of nucleic acids, wherein said library comprises diverse nucleic acid analytes which comprise (i) an inherent universal detection target (UDT) comprising at least one conserved sequence present in said diverse nucleic acid analytes, and (ii) a universal detection element (UDE), said UDE being attached to said UDT, said nucleic acid analytes being hybridized to said array of nucleic acids, and said array of nucleic acids being fixed or immobilized to a solid support, wherein said UDE generates a signal indicating the presence or quantity of said diverse nucleic acid analytes by means of said attachment of said UDE to said UDT.

2. (Previously Presented) The composition of claim 1, wherein said library of nucleic acid analytes is isolated from a biological source comprising organs, tissues or cells.

3. (Previously Presented) The composition of claim 1, wherein said nucleic acid analytes comprise genomic DNA, episomal DNA, unspliced RNA, mRNA, rRNA, snRNA or a combination of any of the foregoing.

4. (Previously Presented) The composition of claim 1, wherein said nucleic acid array comprises DNA, RNA, or analogs thereof.

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5. (Previously Presented) The composition of claim 4, wherein said analogs comprise PNA.
6. (Previously Presented) The composition of claims 4 or 5, wherein said nucleic acids or analogs are modified on any one of the sugar, phosphate or base moieties.
7. (Previously Presented) The composition of claim 1, wherein said solid support is porous or non-porous.
8. (Previously Presented) The composition of claim 7, wherein said porous solid support comprises polyacrylamide or agarose.
9. (Previously Presented) The composition of claim 7, wherein said non-porous solid support comprises glass or plastic.
10. (Previously Presented) The composition of claim 1, wherein said solid support is transparent, translucent, opaque or reflective.
11. (Previously Presented) The composition of claim 1, wherein said nucleic acids are directly or indirectly fixed or immobilized to said solid support.
12. (Previously Presented) The composition of claim 11, wherein said nucleic acids are indirectly fixed or immobilized to said solid support by means of a chemical linker or linkage arm or a linkage arm.
13. (Previously Presented) The composition of claim 1, wherein said inherent UDT comprises 3' polyA segments, 5' caps, secondary structures, consensus sequences or a combination of any of the foregoing.

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14. (Previously Presented) The composition of claim 13, wherein said consensus sequences comprises signal sequences for polyA addition, splicing elements, multicopy repeats or a combination of any of the foregoing.

15. (Previously Presented) The composition of claim 1, wherein said UDE comprises nucleic acids, nucleic acid analogs, polypeptides, polysaccharides, synthetic polymers or a combination of any of the foregoing.

16. (Previously Presented) The composition of claim 4, wherein said analogs comprise PNA.

17. (Previously Presented) The composition of claim 1, wherein said UDE generates a signal directly or indirectly.

18. (Previously Presented) The composition of claim 17, wherein said direct signal generation comprises a fluorescent compound, a phosphorescent compound, a chemiluminescent compound, a chelating compound, an electron dense compound, a magnetic compound, an intercalating compound, an energy transfer compound or a combination of any of the foregoing.

19. (Previously Presented) The composition of claim 17, wherein said indirect signal generation comprises an antibody, an antigen, a hapten, a receptor, a hormone, a ligand, an enzyme or a combination of any of the foregoing.

20. (Previously Presented) The composition of claim 19, wherein said enzyme catalyzes a reaction comprises a fluorogenic reaction, a chromogenic reaction or a chemiluminescent reaction.

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Claims 21-40 (CANCELED).

Claims 41-952 (CANCELED).

953. (Previously Presented) The composition of claim 1, wherein said nucleic acid analytes comprise DNA or RNA copies of genomic DNA, episomal DNA, unspliced RNA, mRNA, rRNA, snRNA or combinations thereof.

Claim 954. (Canceled).

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